

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
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Application Serial Number: 10/563,570
Source: JPNP
Date Processed by STIC: H19-06

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/563,570

DATE: 01/19/2006

TIME: 13:23:31

Input Set : A:\059742-5001-US Sequence Listing.txt

Output Set: N:\CRF4\01192006\J563570.raw

3 <110> APPLICANT: David, WAGNER H
 5 <120> TITLE OF INVENTION: METHODS FOR PREDICTING DEVELOPMENT OF AUTO-IMMUNE DISEASES
 AND
 6 TREATMENT OF SAME
 8 <130> FILE REFERENCE: 059742-5001-WO
 C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/563,570
 C--> 10 <141> CURRENT FILING DATE: 2006-01-06
 10 <150> PRIOR APPLICATION NUMBER: US 60/484,655
 11 <151> PRIOR FILING DATE: 2003-07-07
 13 <150> PRIOR APPLICATION NUMBER: PCT/US2004/021646
 14 <151> PRIOR FILING DATE: 2004-07-07
 16 <160> NUMBER OF SEQ ID NOS: 21
 18 <170> SOFTWARE: PatentIn version 3.3
 20 <210> SEQ ID NO: 1
 21 <211> LENGTH: 6545
 22 <212> TYPE: DNA
 23 <213> ORGANISM: Homo sapiens
 25 <400> SEQUENCE: 1
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 28 acatctcaac actttggcca ggcagcctgc tgagcaagg acctcagccca gcatggcagc 120
 30 ctctttccca cccacccctgg gactcagttc tgccccagat gaaattcagc acccacatat 180
 32 taaatttca gaatggaaat ttaagctgtt ccgggtgaga tcctttgaaa agacacctga 240
 34 agaagctcaa aaggaaaaga aggattccctt tgaggggaaa ccctctctgg agcaatctcc 300
 36 agcagtccctg gacaaggctg atggtcagaaa gccagtcctt actcagccat tgtaaaaagc 360
 38 ccaccctaag ttttcaaaga aatttcacga caacgagaaaa gcaagaggca aagcgatcca 420
 40 tcaagccaaac cttcgacatc tctgcccgtat ctgtggaaat tcttttagag ctgatgagca 480
 42 caacaggaga tatccagtcc atggtcctgt ggatggtaaa accctaggcc ttttacgaaa 540
 44 gaaggaaaag agagctactt cctggccgga cctcattgcc aaggtttcc ggatcgatgt 600
 46 gaaggcagat gttgactcga tccacccac tgagttctgc cataactgtct ggagcatcat 660
 48 gcacaggaag tttagcagtgc ccccatgtga ggtttacttc ccgaggaacg tgaccatgg 720
 50 gtggcacccc cacacaccat cctgtgacat ctgcaacact gcccgtcgaa gactcaagag 780
 52 gaagagtctt cagccaaact tgcagctcag caaaaaactc aaaactgtgc ttgaccaagc 840
 54 aagacaagcc cgtagcgcgca agagaagagc tcaggcaagg atcagcagca aggatgtcat 900
 56 gaagaagatc gccaactgca gtaagataca tcttagtacc aagctccttg cagtggactt 960
 58 cccagagcac tttgtgaaat ccatctcctg ccagatctgt gaacacattc tggctgaccc 1020
 60 tgtggagacc aactgtaagc atgtcttttgc cgggtctgc attctcagat gcctcaaagt 1080
 62 catgggcagc tattgtccct cttgcccata tccatgttc cctactgacc tggagagtcc 1140
 64 agtgaagtcc tttctgagcg tcttgaattc cctgtatggtg aaatgtcccg caaaagagtg 1200
 66 caatgaggag gtcagtttgg aaaaatataa tcaccacatc tcaagtcaaca aggaatcaaa 1260
 68 agagattttt gtcacattaa ataaaggggg ccggccccgc caacatcttc tgcgtgc 1320
 70 tcggagagct cagaagcacc ggctgaggaa gctcaagctg caagtcaaag cctttgctga 1380
 72 caaagaagaa ggtggagatg tgaagtccgt gtcacatgacc ttgttccctgc tggctctgag 1440
 74 ggcgaggaat gggcacaggc aagctgatgaa gctggaggcc atcatgcagg gaaagggctc 1500
 76 tggcctgcag ccagctgtttt gcttggccat ccgtgtcaac accttcctca gctgcgtca 1560

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78	gtaccacaag atgtacagga ctgtgaaagc catcacaggg agacagattt ttcagccttt	1620
80	gcatgccctt cggaatgctg agaaggtaact tctgcaggc taccaccact ttgagtggca	1680
82	gccacctctg aagaatgtgt cttccagcac tgatgttggc attattgtat ggctgtctgg	1740
84	actatcatcc tctgtggatg attaccagg ggcacaccatt gcaaagaggt tccctatga	1800
86	ttcagctttg gtgtctgctt tgatggacat ggaagaagac atcttggaaag gcatgagatc	1860
88	ccaagacctt gatgattacc tgaatggccc cttcaactgtg gtggtaaagg agtcttgtga	1920
90	tggaatggga gacgtgagtg agaagcatgg gagtggcct gtatcccac agtctcaaga atgtaaaagt	1980
92	ccgttttca ttcaaatca tggaaaattac tattgcccac agtctcaaga atgtaaaagt	2040
94	atgttaagaa gccaaaccta actctgaact gtgttgcag ccattgtgcc ttatgtgtgc	2100
96	agatgagtct gaccacgaga cgctgactgc catcctgagt cctctcattt ctgagaggga	2160
98	ggccatgaag agcagtgaat taatgttgc gctggaggc attctccgga ctttcaagtt	2220
100	catcttcagg ggcacccgct atgtaaaaa acttgtgcgg gaagtggaaag gcctcgaggc	2280
102	ttctggctca gtctacattt gtactcttgc tgatgccacc cgtctggaaag cctctcaaaa	2340
104	tcttgtcttc cactctataa ccagaagcca tgctgagaac ctggaaacgtt atgaggctgt	2400
106	gcgttccaaac ctttaccatg agtctgttgc agaactgcgg gatcgggtga aaggggcttc	2460
108	agctaaaccc ttcatgttgc cagtccttc catacatgc ctccactgtg acattggcaa	2520
110	tgcagcttag ttctacaaga tcttccagct agatagatggg gaagtgtata agaatccaa	2580
112	tgcttccaaa gagaaagga aaaggtggca ggcacactg gacaagcatc tccggaaagaa	2640
114	gatgaacctc aaaccaatca tgaggatgaa tggcaacttt gccaggaaagc tcacatgaccaa	2700
116	agagactgtg gatgcagggtt gtgagttat tccttccggag gagaggcacc aggtctgtag	2760
118	ggagctgatg gatctttacc tgaagatgaa accagatggg cgtatcatcat gcccgtctaa	2820
120	agagtccccaa gaatccctt gccagttacag ttcaatttca cagcggtttt ctgagctcct	2880
122	ttctacgaag ttcaagtata ggtatgggg aaaaatcacc aattatttc aaaaaacccct	2940
124	ggcccatgtt cctgaaattt ttgagaggga tggctccatt gggcatggg caagtgggg	3000
126	aaatgagtct ggtaacaaac tggtaggcg cttccggaaa atgaatgcca ggcagtccaa	3060
128	atgctatgat atggaagatg tcctgaaaca ccactgggtt tacaccccca aataccctcca	3120
130	gaagtttatg aatgctcata atgcattaaa aacctctggg ttaccatga accctcgaggc	3180
132	aagcttaggg gaccattttt gcatagagga ctctctggaa agccaagatt caatggaaatt	3240
134	ttaagtaggg caaccactta tgagttgggtt ttgcaattt agttccctc tgggttgcatt	3300
136	tgagggcttc tcctagcacc ctactgttgc gtgtatgggg cttcaccatc caagagggtgg	3360
138	taggttggag taagatgtca cagatgtct caagtcagga atagaaactg atgagctgt	3420
140	tgcttgaggc ttttagtgat ttccgaaaag caacaggaaa aatcagttat ctgaaagctc	3480
142	agtaacttagt aacaggatgt actgcagggg accagagatg agcaaagatc tgggtgtgtt	3540
144	ggggagctgt catgttaatc aaagccaagg ttgtcaaaga acagccagtg agggccagaaaa	3600
146	ttggcttgcgtt gttttccatt tttttcccccc ttgattgatt atatttgttta ttgagatgt	3660
148	ataagtgcct tctatttcat ttttgaataa ttcttcattt ttataattt acatatcttgc	3720
150	gcttgctata taagattcaa aagagcttt taaaatttttcaataatatac ttacattttgt	3780
152	acagcatgat gacctttaca aagtgccttc aatgcatttta cccattcggtt atataaatat	3840
154	gttacatcatg gacaactttt agaaaatcatg tccttttttta tgttaaattt atgtatctat	3900
156	tgtAACCTTC agagtttagg aggtcatctg ctgtcatgg ttttcaata atgaatttag	3960
158	aatacacctg ttagtacatg ttagttata aatcttctga taatataatgt ttacttagct	4020
160	atcagaagcc aagtatgatt ctatattttt actttttcat ttcaagaaat ttagagtttcc	4080
162	caaattttaga gcttctgcat acgtcttaa agccacagag gcttgtaaaa atataggttta	4140
164	gcttgatgtc taaaatata tttcatgtct tactgaaaca ttttgcggc cttctccaa	4200
166	atgaaacccgt aatcaattttt tctaaatcta ggtttcatag agtcctctcc tctgcaatgt	4260
168	gttattctt ctataatgtat cagttactt tcagttggatt cagaattgtg tagcaggata	4320
170	accttgcattt tttccatccg ctaagtttag atggagtccaa aacgcgtac agcagaagag	4380
172	ttaacatttta cacagtgcattt tttaccactg tggaaatgtt ttacactcat ttttccttac	4440
174	aacaattctg aggtaggtt gtttttattt tctccatttgc atgggggttt aatgatttgc	4500

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176	tcaaagtcat	ttagggtaa	taaatacttg	gcttggaaat	ttaacacagt	cctttgtct	4560											
178	ccaaagccct	tcttcattcc	accacaaatt	aatcaactatg	tttataaggt	agtatcagaa	4620											
180	tttttttagg	attcacaact	aatcaactata	gcacatgacc	ttgggattac	atttttatgg	4680											
182	ggcaggggta	agcggtttt	aaatcatttg	tgtgctctgg	ctctttgtat	agaagaaaagc	4740											
184	aacacaaaag	ctccaaaggg	ccccctaacc	ctcttgcgc	tccagttatt	tgaaaactat	4800											
186	gatctgcattc	cttaggaatc	tgggatttgc	cagttgcgg	caatgttagag	caggcatgga	4860											
188	attttatatg	ctagttagtc	ataatgatat	gttagtgtta	attagttttt	cttccttga	4920											
190	ttttattggc	cataattgct	actcttcata	cacagtatat	caaagagctt	gataatttag	4980											
192	ttgtcaaaag	tgcattcgcc	acattatctt	taattgtatg	tatttggtgc	ttcttcaggg	5040											
194	attgaactca	gtatcttca	ttaaaaaaca	cagcagttt	ccttgcttt	tatatgcaga	5100											
196	atataaaagt	catttctaatt	ttagttgtca	aaaacatata	cataattttaa	cattagttt	5160											
198	tttggaaact	cttgggtttt	tttttttgg	aatgagtggg	ccactaagcc	acactttccc	5220											
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206	tgttaggaact	attttgaatg	catgtgacta	agagcatgat	ttatagcaca	acctttccaa	5460											
208	taatccctta	atcagatcac	atttgataa	accctggaa	catctggctg	caggaatttc	5520											
210	aatatgtaga	aacgtgcct	atggttttt	gcccttactg	ttgagactgc	aatatcctag	5580											
212	accctagttt	tatactagag	ttttttttt	agcaatgcct	attgcaagtg	caatttatata	5640											
214	ctccaggaa	attcaccaca	ctgaatcgag	catttgcgtg	tgtatgtgtg	aagtatatct	5700											
216	gggacttcag	aagtgcattg	tattttctc	ctgtgaaacc	tgaatctaca	agtttctgc	5760											
218	caagccactc	aggtgcattg	cagggaccag	tgataatggc	tgatgaaaat	tgatgattgg	5820											
220	tcaagtgggt	caaaaggagc	cttgggatta	ataaaacatgc	actgagaagc	aagaggagga	5880											
222	aaaaaaagatg	tcttttctt	ccaggtgaac	tggaaatttag	ttttgcctca	gattttttc	5940											
224	ccacaagata	cagaagaaga	taaagattt	tttgggttag	agtgtgggtc	ttgcattaca	6000											
226	tcaaacagag	ttcaaattcc	acacagataa	gaggcaggat	atataagcgc	cagtggtagt	6060											
228	tgggaggaat	aaaccattat	ttggatgcag	gtggttttt	attgcaata	tgtgtgtgtc	6120											
230	ttcagtgtatt	gtatgacaga	tgtatgtattc	ttttgatgtt	aaaagattt	aagtaagagt	6180											
232	agatacattt	taccatttt	acattttctt	attttaacta	cagtaatcta	cataaaatata	6240											
234	cctcagaaat	cattttgg	gattttttt	tgtttgttag	aattgcactt	cagtttattt	6300											
236	tcttacaaat	aaccttacat	tttgcattaa	ggcttccaag	agcctttttt	ttttgtattt	6360											
238	tcaagaaaaa	ttcaggtacc	aggatgcaat	ggattttattt	gattcagggg	acctgtattt	6420											
240	ccatgtcaaa	tgtttcaaa	taaaatgaaa	tatgagttt	aatactttt	atatttaat	6480											
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255	1				5				10						15			
258	Glu	Ile	Gln	His	Pro	His	Ile	Lys	Phe	Ser	Glu	Trp	Lys	Phe	Lys	Leu		
259							20			25				30				
262	Phe	Arg	Val	Arg	Ser	Phe	Glu	Lys	Thr	Pro	Glu	Glu	Ala	Gln	Lys	Glu		
263							35			40				45				
266	Lys	Lys	Asp	Ser	Phe	Glu	Gly	Lys	Pro	Ser	Leu	Glu	Gln	Ser	Pro	Ala		
267							50			55				60				
270	Val	Leu	Asp	Lys	Ala	Asp	Gly	Gln	Lys	Pro	Val	Pro	Thr	Gln	Pro	Leu		

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271	65	70	75	80
274	Leu Lys Ala His Pro Lys Phe Ser Lys Lys Phe His Asp Asn Glu Lys			
275	85	90	95	
278	Ala Arg Gly Lys Ala Ile His Gln Ala Asn Leu Arg His Leu Cys Arg			
279	100	105	110	
282	Ile Cys Gly Asn Ser Phe Arg Ala Asp Glu His Asn Arg Arg Tyr Pro			
283	115	120	125	
286	Val His Gly Pro Val Asp Gly Lys Thr Leu Gly Leu Leu Arg Lys Lys			
287	130	135	140	
290	Glu Lys Arg Ala Thr Ser Trp Pro Asp Leu Ile Ala Lys Val Phe Arg			
291	145	150	155	160
294	Ile Asp Val Lys Ala Asp Val Asp Ser Ile His Pro Thr Glu Phe Cys			
295	165	170	175	
298	His Asn Cys Trp Ser Ile Met His Arg Lys Phe Ser Ser Ala Pro Cys			
299	180	185	190	
302	Glu Val Tyr Phe Pro Arg Asn Val Thr Met Glu Trp His Pro His Thr			
303	195	200	205	
306	Pro Ser Cys Asp Ile Cys Asn Thr Ala Arg Arg Gly Leu Lys Arg Lys			
307	210	215	220	
310	Ser Leu Gln Pro Asn Leu Gln Leu Ser Lys Lys Leu Lys Thr Val Leu			
311	225	230	235	240
314	Asp Gln Ala Arg Gln Ala Arg Gln Arg Lys Arg Arg Ala Gln Ala Arg			
315	245	250	255	
318	Ile Ser Ser Lys Asp Val Met Lys Lys Ile Ala Asn Cys Ser Lys Ile			
319	260	265	270	
322	His Leu Ser Thr Lys Leu Leu Ala Val Asp Phe Pro Glu His Phe Val			
323	275	280	285	
326	Lys Ser Ile Ser Cys Gln Ile Cys Glu His Ile Leu Ala Asp Pro Val			
327	290	295	300	
330	Glu Thr Asn Cys Lys His Val Phe Cys Arg Val Cys Ile Leu Arg Cys			
331	305	310	315	320
334	Leu Lys Val Met Gly Ser Tyr Cys Pro Ser Cys Arg Tyr Pro Cys Phe			
335	325	330	335	
338	Pro Thr Asp Leu Glu Ser Pro Val Lys Ser Phe Leu Ser Val Leu Asn			
339	340	345	350	
342	Ser Leu Met Val Lys Cys Pro Ala Lys Glu Cys Asn Glu Glu Val Ser			
343	355	360	365	
346	Leu Glu Lys Tyr Asn His His Ile Ser Ser His Lys Glu Ser Lys Glu			
347	370	375	380	
350	Ile Phe Val His Ile Asn Lys Gly Gly Arg Pro Arg Gln His Leu Leu			
351	385	390	395	400
354	Ser Leu Thr Arg Arg Ala Gln Lys His Arg Leu Arg Glu Leu Lys Leu			
355	405	410	415	
358	Gln Val Lys Ala Phe Ala Asp Lys Glu Glu Gly Asp Val Lys Ser			
359	420	425	430	
362	Val Cys Met Thr Leu Phe Leu Leu Ala Leu Arg Ala Arg Asn Glu His			
363	435	440	445	
366	Arg Gln Ala Asp Glu Leu Glu Ala Ile Met Gln Gly Lys Gly Ser Gly			
367	450	455	460	

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370 Leu Gln Pro Ala Val Cys Leu Ala Ile Arg Val Asn Thr Phe Leu Ser
 371 465 470 475 480
 374 Cys Ser Gln Tyr His Lys Met Tyr Arg Thr Val Lys Ala Ile Thr Gly
 375 485 490 495
 378 Arg Gln Ile Phe Gln Pro Leu His Ala Leu Arg Asn Ala Glu Lys Val
 379 500 505 510
 382 Leu Leu Pro Gly Tyr His His Phe Glu Trp Gln Pro Pro Leu Lys Asn
 383 515 520 525
 386 Val Ser Ser Ser Thr Asp Val Gly Ile Ile Asp Gly Leu Ser Gly Leu
 387 530 535 540
 390 Ser Ser Ser Val Asp Asp Tyr Pro Val Asp Thr Ile Ala Lys Arg Phe
 391 545 550 555 560
 394 Arg Tyr Asp Ser Ala Leu Val Ser Ala Leu Met Asp Met Glu Glu Asp
 395 565 570 575
 398 Ile Leu Glu Gly Met Arg Ser Gln Asp Leu Asp Asp Tyr Leu Asn Gly
 399 580 585 590
 402 Pro Phe Thr Val Val Val Lys Glu Ser Cys Asp Gly Met Gly Asp Val
 403 595 600 605
 406 Ser Glu Lys His Gly Ser Gly Pro Val Val Pro Glu Lys Ala Val Arg
 407 610 615 620
 410 Phe Ser Phe Thr Ile Met Lys Ile Thr Ile Ala His Ser Ser Gln Asn
 411 625 630 635 640
 414 Val Lys Val Phe Glu Glu Ala Lys Pro Asn Ser Glu Leu Cys Cys Lys
 415 645 650 655
 418 Pro Leu Cys Leu Met Leu Ala Asp Glu Ser Asp His Glu Thr Leu Thr
 419 660 665 670
 422 Ala Ile Leu Ser Pro Leu Ile Ala Glu Arg Glu Ala Met Lys Ser Ser
 423 675 680 685
 426 Glu Leu Met Leu Glu Leu Gly Gly Ile Leu Arg Thr Phe Lys Phe Ile
 427 690 695 700
 430 Phe Arg Gly Thr Gly Tyr Asp Glu Lys Leu Val Arg Glu Val Glu Gly
 431 705 710 715 720
 434 Leu Glu Ala Ser Gly Ser Val Tyr Ile Cys Thr Leu Cys Asp Ala Thr
 435 725 730 735
 438 Arg Leu Glu Ala Ser Gln Asn Leu Val Phe His Ser Ile Thr Arg Ser
 439 740 745 750
 442 His Ala Glu Asn Leu Glu Arg Tyr Glu Val Trp Arg Ser Asn Pro Tyr
 443 755 760 765
 446 His Glu Ser Val Glu Glu Leu Arg Asp Arg Val Lys Gly Val Ser Ala
 447 770 775 780
 450 Lys Pro Phe Ile Glu Thr Val Pro Ser Ile Asp Ala Leu His Cys Asp
 451 785 790 795 800
 454 Ile Gly Asn Ala Ala Glu Phe Tyr Lys Ile Phe Gln Leu Glu Ile Gly
 455 805 810 815
 458 Glu Val Tyr Lys Asn Pro Asn Ala Ser Lys Glu Glu Arg Lys Arg Trp
 459 820 825 830
 462 Gln Ala Thr Leu Asp Lys His Leu Arg Lys Lys Met Asn Leu Lys Pro
 463 835 840 845
 466 Ile Met Arg Met Asn Gly Asn Phe Ala Arg Lys Leu Met Thr Lys Glu

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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:9; N Pos. 21,22
Seq#:10; N Pos. 21,22
Seq#:11; N Pos. 21,22
Seq#:12; N Pos. 23,24
Seq#:13; N Pos. 23,24
Seq#:14; N Pos. 21,22
Seq#:15; N Pos. 23,24
Seq#:16; N Pos. 23,24
Seq#:17; N Pos. 24,25
Seq#:18; N Pos. 25,26
Seq#:19; N Pos. 25,26
Seq#:20; N Pos. 23,24
Seq#:21; N Pos. 23,24

VERIFICATION SUMMARY

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L:10 M:270 C: Current Application Number differs, Replaced Current Application No
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:942 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0
L:965 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0
L:988 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0
L:1011 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0
L:1034 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0
L:1057 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0
L:1080 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0
L:1103 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0
L:1126 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0
L:1149 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0
L:1172 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:0
L:1195 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0
L:1218 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:0